



Canopus

Cybersecurity & Connectivity Solution

CAN TRADER
AND SERVICES PTE LTD

 **CAN MARINE**
SYSTEMS PTE LTD

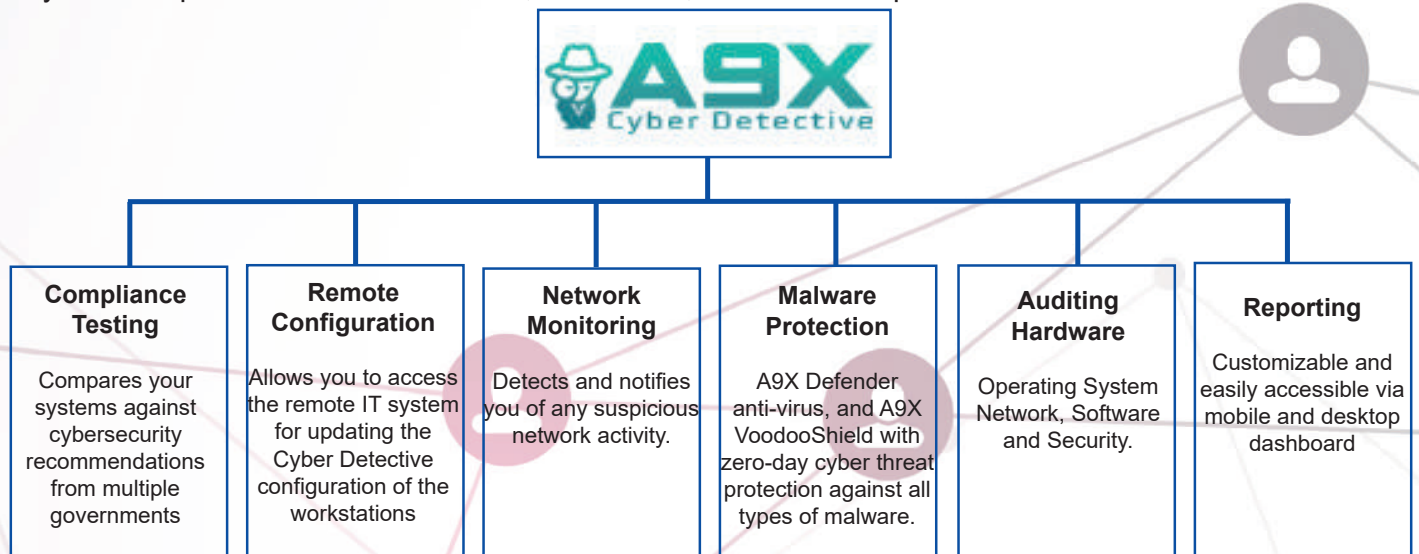


What is the Canopus?

The Canopus is a connectivity & cybersecurity suite providing C+Ku, Ku, L-Band, Managed IT Services and cybersecurity solution to the maritime industry.

Powered by A9X, the A9X Cyber Detective (ACD) is a bespoke maritime cybersecurity software, optimized with up to 100-1 file reduction for economical transfer over slow satellite links and low bandwidth systems.

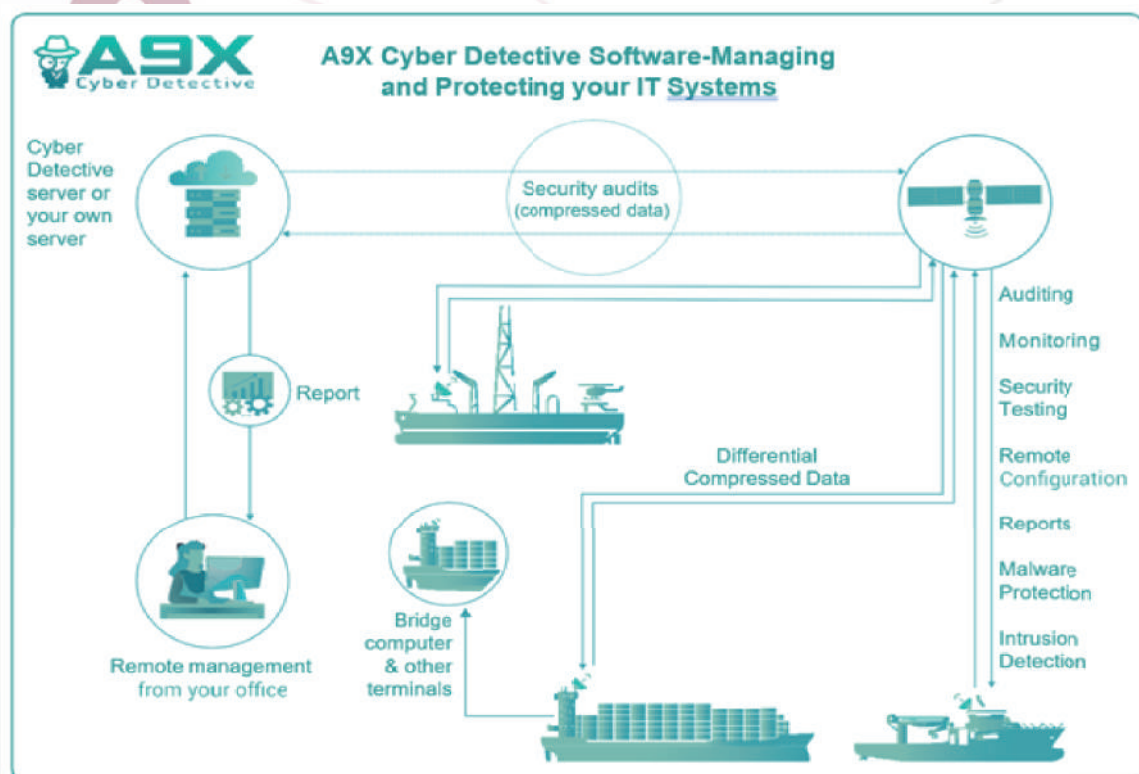
System Requirements : Windows 10+, 2 GB RAM, 150MB Disk Space



How does it work?

Installation is quick and simple, and can be done by the crew. Only a single license key is required. The system automatically configures itself by downloading settings from shore.

Communications PC onboard runs the ACD client and handles all network communication with the ACD cloud.



Cyber Risk Management Approach

BIMCO - Maritime Council's Guidelines*

VS

Canopus Cyber Detective - IT Hardware/Software Compliance

Identify Threats

Understand the external cyber security threats to the ship. Understand the internal cyber security threats posed by inappropriate use and lack of awareness



Compliance Testing

Compares your IT systems against rules & recommendations from multiple government & maritime council's guidelines: NIST, BIMCO, etc.

Identify Vulnerabilities

Develop inventories of on board systems with direct & indirect communications links. Understand the consequences of a cyber security threat on these systems. Understand the capabilities and limitations of existing protection measures.



Network Monitoring

Intrusion detection scans your IT systems, detects & alerts, notifying you of any harmful activity, or policy breaching.

Asses Risk Exposure

Determine the likelihood of vulnerabilities being exploited by external threats. Determine the likelihood of vulnerabilities being exposed by inappropriate use. Determine the security & safety impact of any individual or combination of vulnerabilities being exploited.



Malware Protection

Multi-layer protection protects you from all types of malware. A9X Defender & A9X VoodooShield with machine learning / AI, provides zero-day threat protection from new malware that Anti-virus doesn't have signatures for yet.

Develop Protection & Detection Measures

Reduce the likelihood of vulnerability being exploited through protection measures. Reduce the potential impact of a vulnerability being exploited.



Remote Configuration

Allows you to both install & access the Cyber Detective remotely & update the configuration of the PC's onboard.

Establish Contingency Plans

Develop a prioritised contingency plan to mitigate any potential identified cyber risk.



Auditing

Hardware, Operating System, Network, Software and Security. Providing potential early warning of any imminent exposure to malware threats / PC failures.

Respond To & Recover From Cyber Security Incidents

Respond to & recover from cyber security incidents using the contingency plan. Assess the impact of the effectiveness of the response plan & re-assess threats & vulnerabilities.



Reporting

Customize the information from the above audits. Reports sent via email or downloadable from the dashboard. Accessible via mobile and desktop dashboards

*Issued by BIMCO, CLIA, ICS, Intercargo, Intermanager, Intertanko, OCIMF, IUMI and World Shipping Council

Canopus Security Add-On

1

DEFENDER

Canopus A9X Defender updates are sent to a single Client PC onboard which automatically updates all the Agent PCs. Completely configurable remotely, you can choose to configure rules for all PC's onboard or individually. You can set update scheduling to hourly, every 2hrs, 6hrs, daily, weekly, with A9X Defender's flexible update management via the A9X Dashboard. If you miss an update or A9X Defender has been disabled, do not worry, the A9X Dashboard will automatically bring vessel up-to-date with the current version, and or re-enable the anti-virus as soon as it sees the vessel is online.

2

SAFE WEB

Canopus A9X Safe Web runs its own DNS server on each PC that runs A9X CyberDetective, that validates/blocks/allows all web addresses (used by every single application within Windows, not just the web browser), allowing you to block any malicious software locations.

3

USB MANAGER

Canopus A9X USB Manager blocks all unauthorised personnel from inserting USB Device.

4

VOODOOSHIELD

Canopus A9X Voodoooshield provides the ultimate protection against viruses, malware and zero-day cyber threats. It is ideal for pay-per-MB and low bandwidth Satcom systems, as it requires no large virus signature update files unlike traditional anti-virus software services.

5

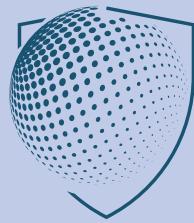
WINDOWS UPDATE

Canopus A9X Windows Update is a bespoke A9X software solution which is integrated with Cyber Detective, and can efficiently transfer large Windows Updates / Patches (10MB-400MB) to vessels that detect missing critical "security-only" updates, in order to minimize downloads. Updates are downloaded by vessel's ACD Client "once" via an optimized data link.

6

WATCHDOG

Canopus A9X Watchdog will provide your IT cybersecurity team with real-time monitoring, alerting and for use over low bandwidth and high latency satellite links.



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